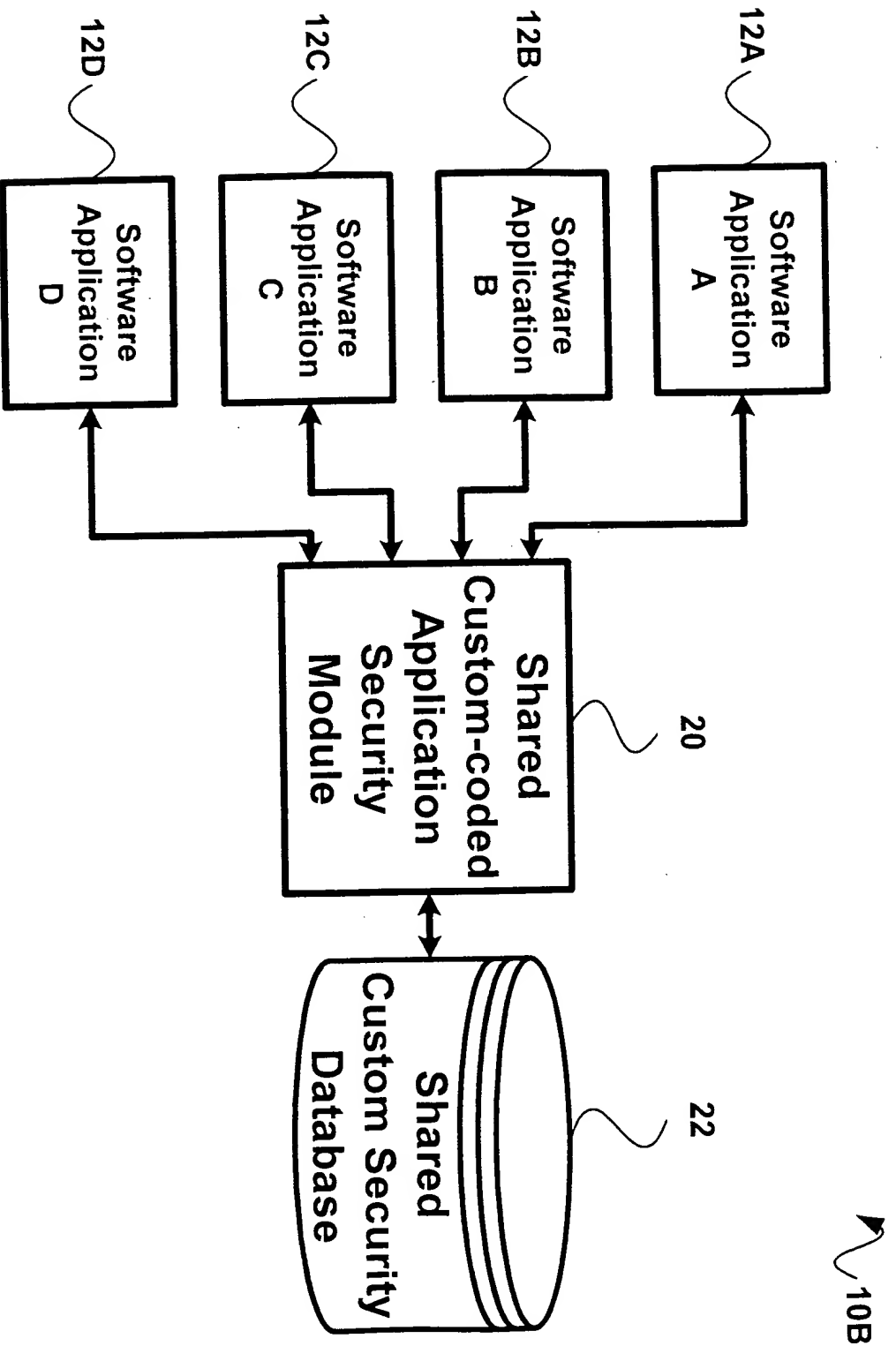


Fig 1A Prior Art

FIG. 1A is a block diagram of a prior art system architecture. The system architecture includes four rows of components, each representing a different application or software instance (A, B, C, and D). The components are interconnected by bidirectional arrows. The components are: 12A: Software Application A, 14A: Application A Custom-coded Application Security, 16A: Application A Custom Security Database, 12B: Software Application B, 14B: Application B Custom-coded Application Security, 16B: Application B Custom Security Database, 12C: Software Application C, 14C: Application C Custom-coded Application Security, 16C: Application C Custom Security Database, 12D: Software Application D, 14D: Application D Custom-coded Application Security, and 16D: Application D Custom Security Database. Interconnections are shown as follows: Horizontal connections: 12A ↔ 14A ↔ 16A, 12B ↔ 14B ↔ 16B, 12C ↔ 14C ↔ 16C, and 12D ↔ 14D ↔ 16D. Vertical connections: 12A ↔ 12B, 12B ↔ 12C, 12C ↔ 12D; 14A ↔ 14B, 14B ↔ 14C, 14C ↔ 14D; and 16A ↔ 16B, 16B ↔ 16C, 16C ↔ 16D.



**Fig 1B Prior Art**

10C

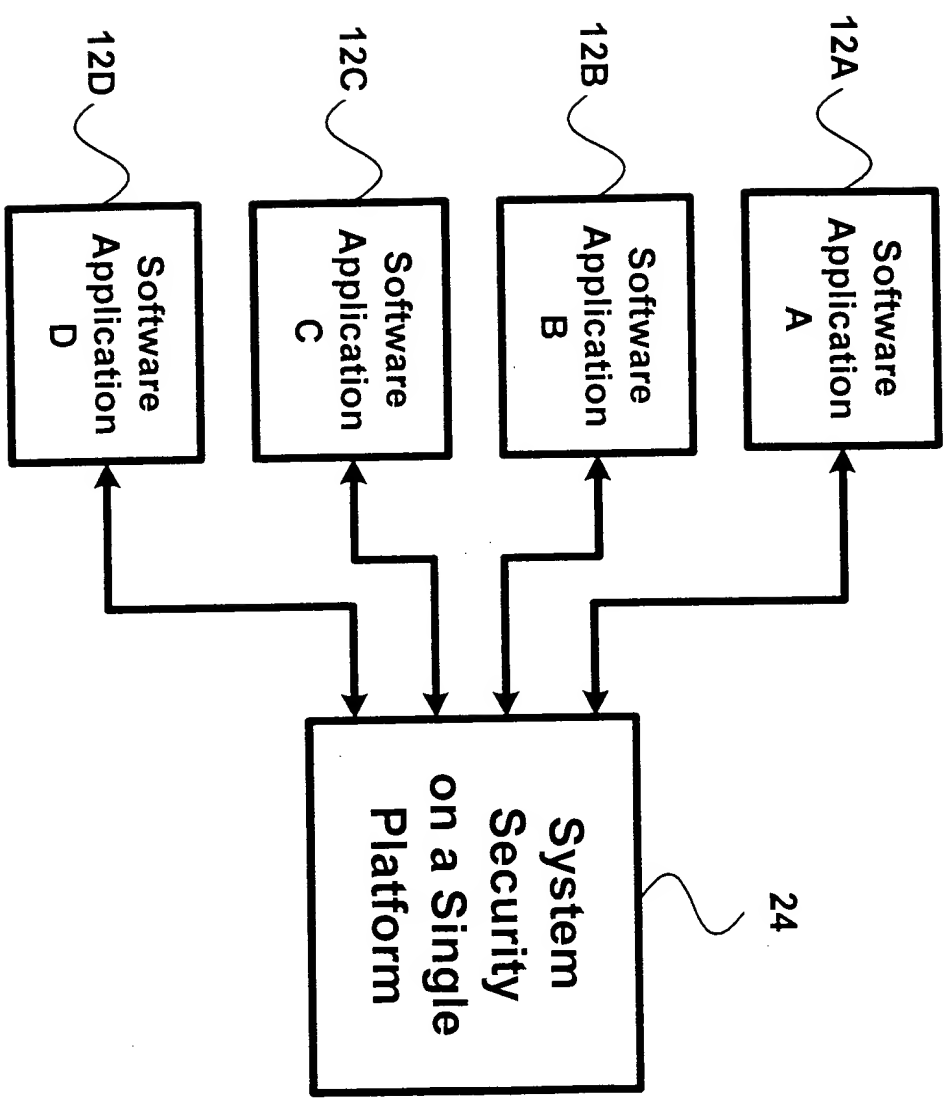


Fig 1C Prior Art

FIG. 1C is a block diagram of a prior art system architecture. The system includes a central block 24, labeled "System Security on a Single Platform". Four software applications, labeled 12A, 12B, 12C, and 12D, are shown to the left of block 24. Each application block is connected to block 24 by a horizontal line, and a vertical line with an arrowhead points from the midpoint of each horizontal line to block 24, indicating that each application interacts with or is managed by the central security platform.

10D

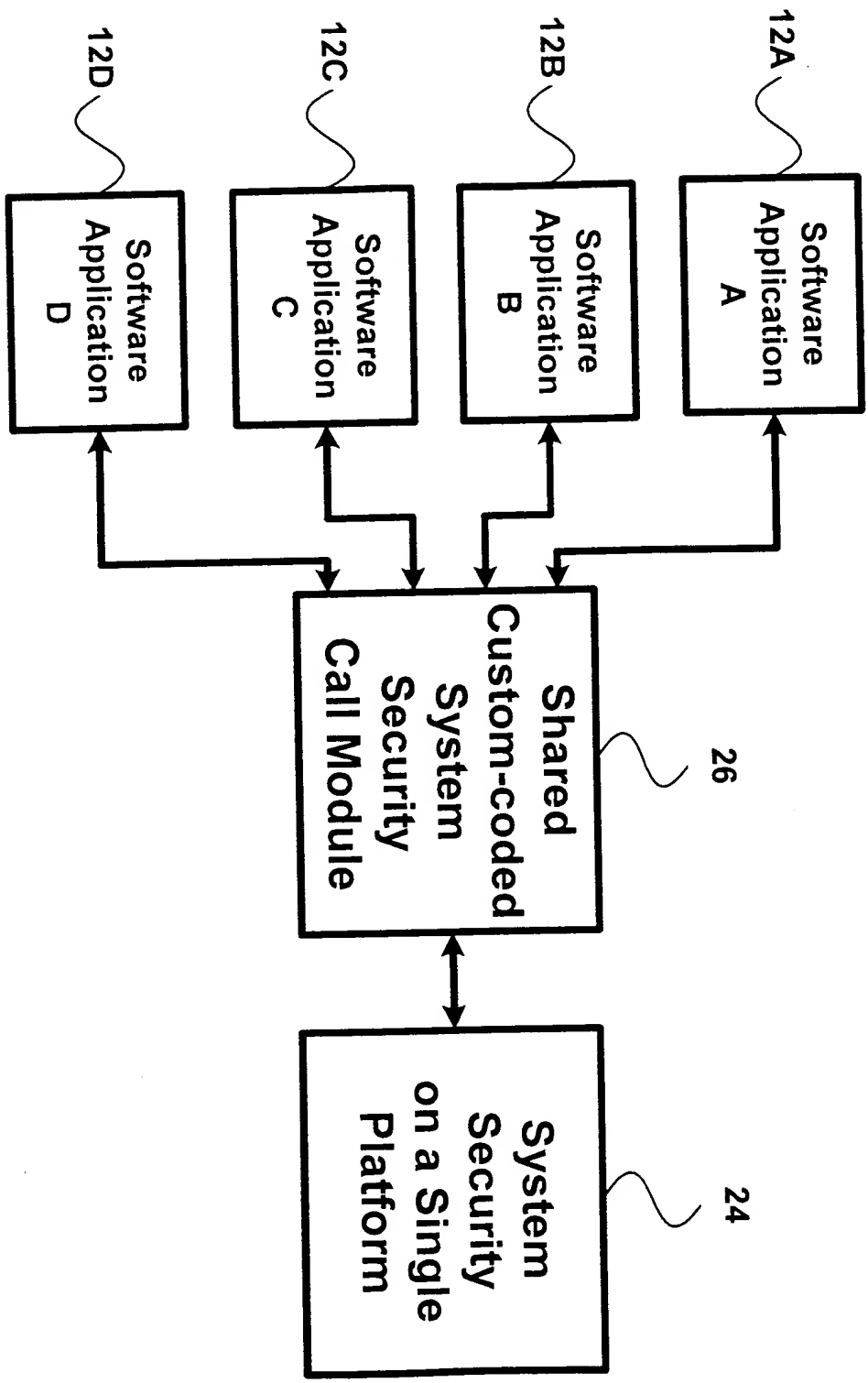
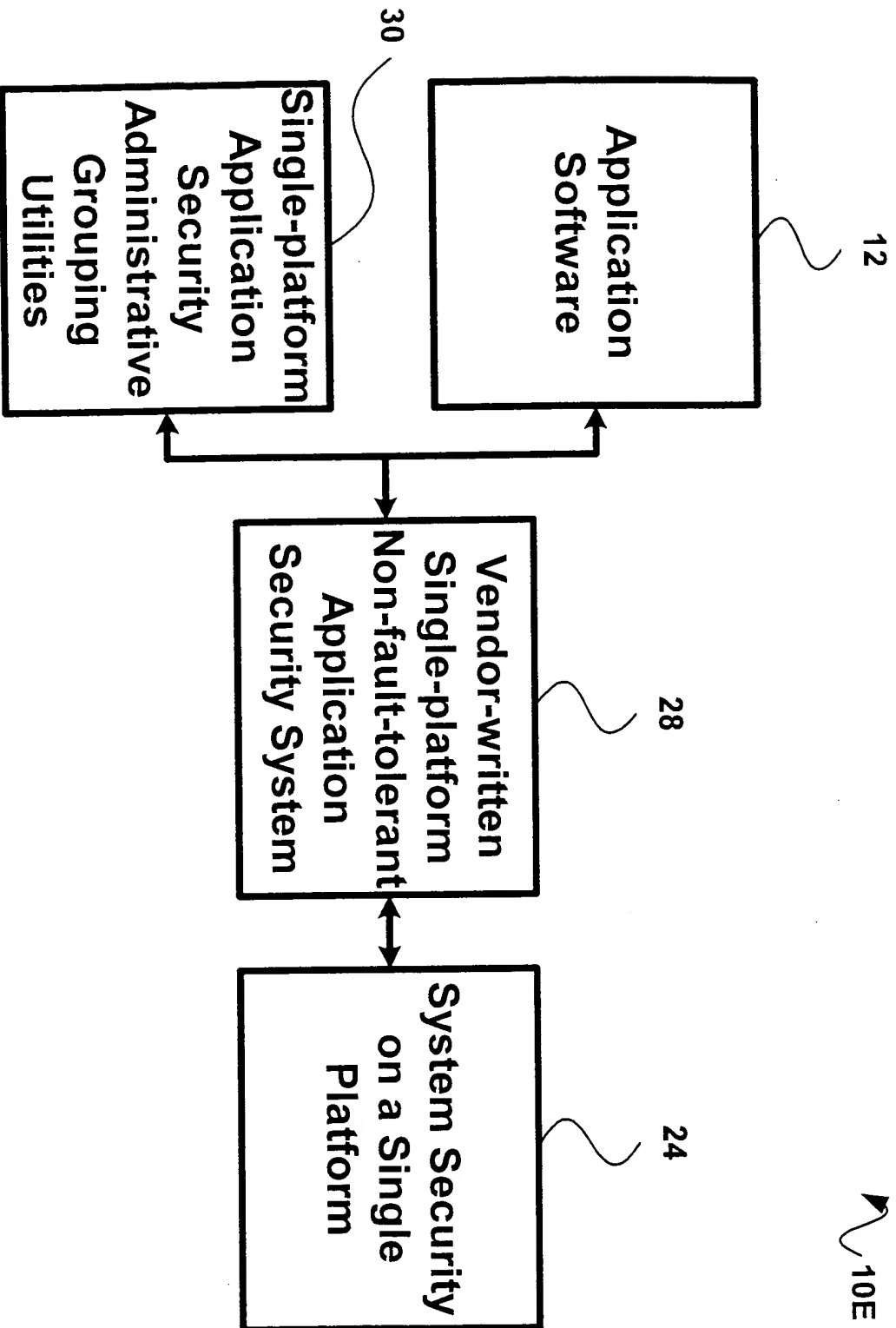


Fig 1D Prior Art



**Fig 1E Prior Art**

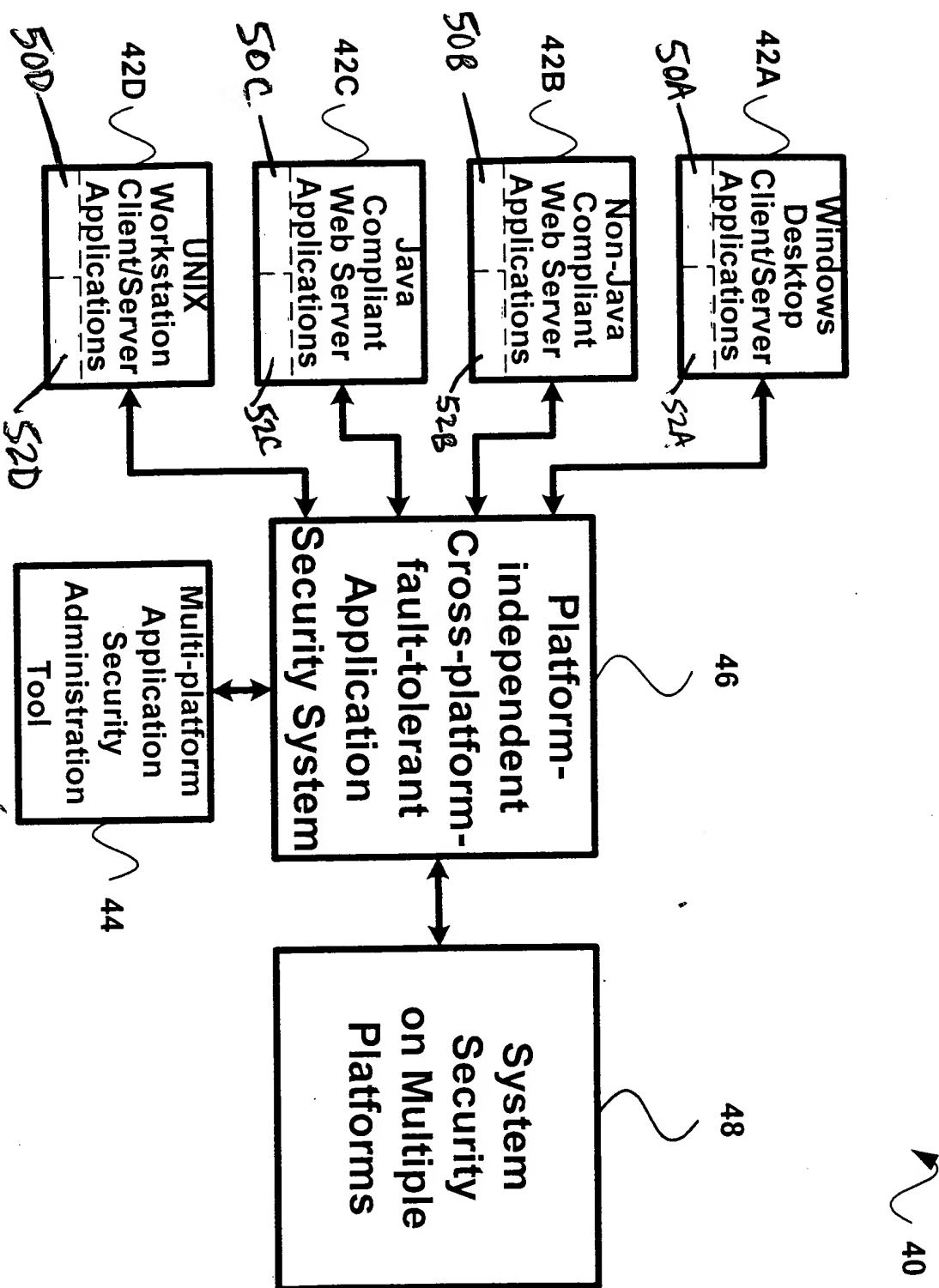


Fig 2

FIG. 2 is a block diagram of a security system architecture. The system includes a central security system (46) that is platform-independent, cross-platform-fault-tolerant, and provides a security system (48) on multiple platforms. The central security system (46) is connected to a multi-platform application security administration tool (44). The central security system (46) also receives input from four client application types: Windows Desktop Client/Server Applications (42A), Non-Java Compliant Web Server Applications (42B), Java Compliant Web Server Applications (42C), and UNIX Workstation Client/Server Applications (42D). The client applications are connected to the central security system (46) via communication links 50A, 50B, 50C, and 50D. A large arrow (40) indicates the flow of data or control from the client applications to the central security system (46).

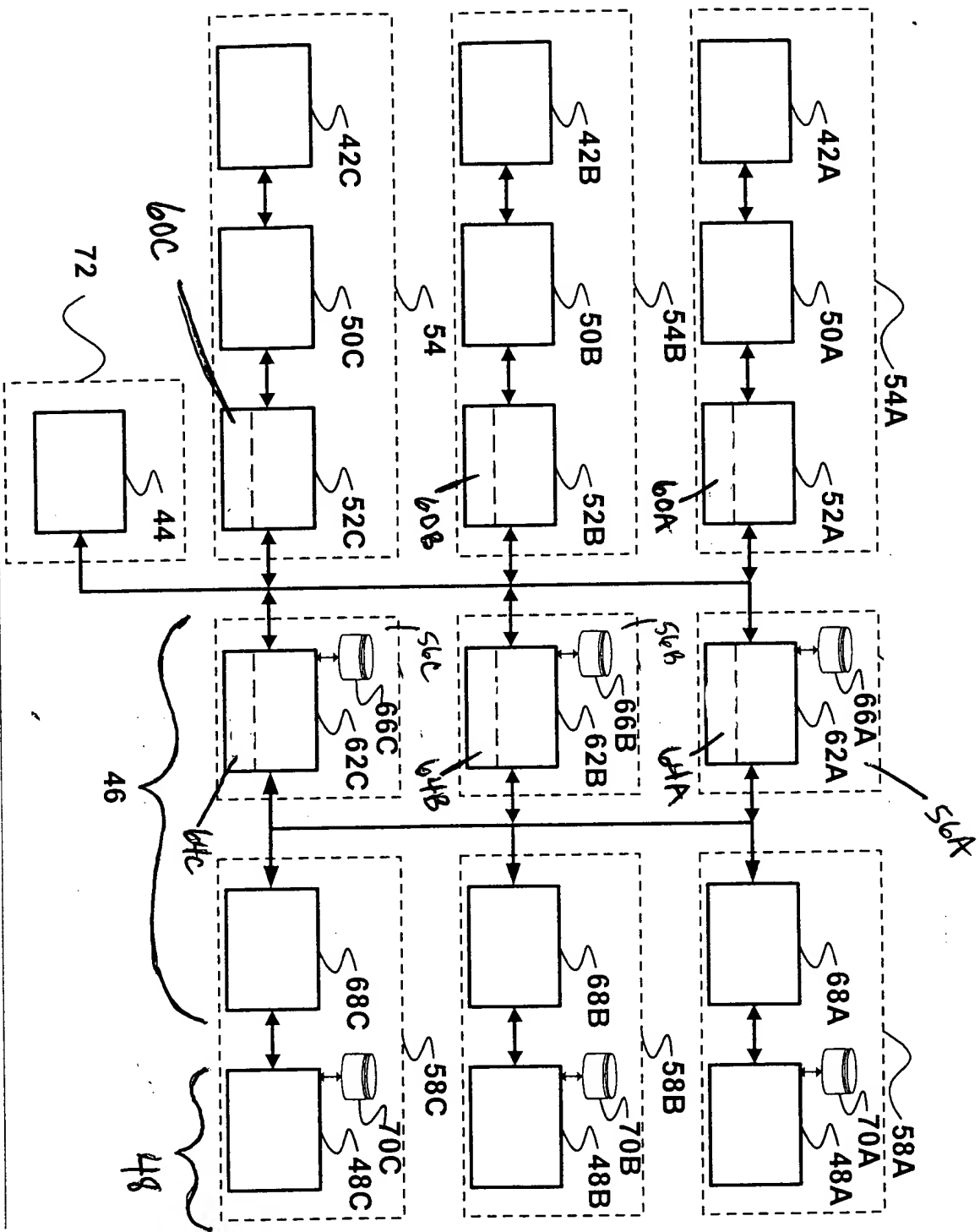


Fig 3

FIG. 3 is a block diagram of a system architecture. The system includes a central bus 72, a block 44, and three main functional blocks: 54A, 58A, and 46. Block 54A contains three parallel paths (42A, 50A, 52A) connected by 54B. Block 58A contains three parallel paths (68A, 70A, 48A) connected by 58B. Block 46 contains three parallel paths (66A, 62A, 64A) connected by 66C. The outputs of blocks 60A, 60B, and 44 are connected to the central bus 72, which in turn connects to the inputs of blocks 54B, 58B, and 66C.

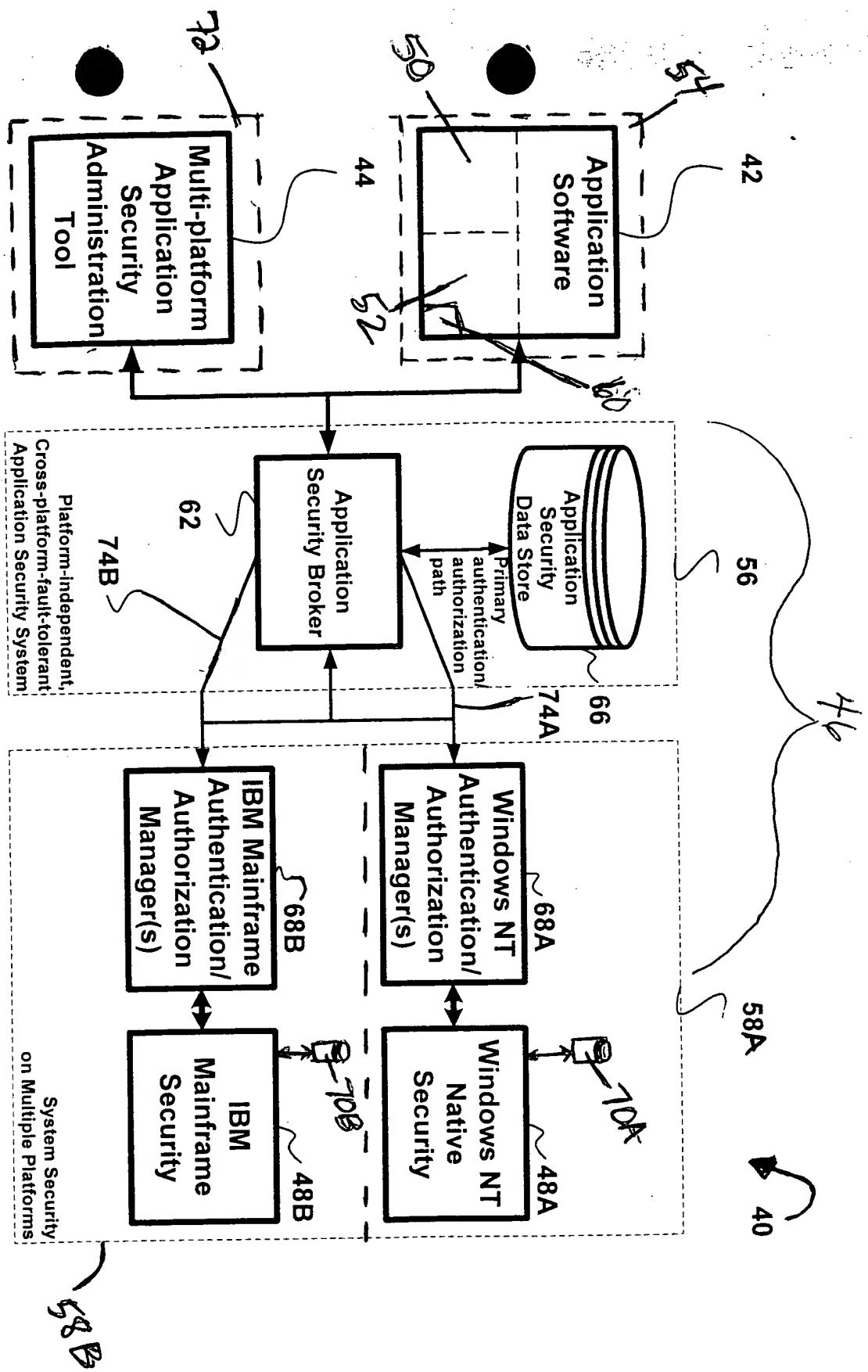


Fig 4

FIG. 4 is a block diagram of a system architecture for application security. The system includes an application security broker (62) that receives requests from application software (42) and the multi-platform application security administration tool (72). The broker (62) is connected to an application security data store (66) via a primary authentication/authorization path (74A). The broker (62) also connects to two main security modules: a Windows NT authentication/authorization manager (68A) and an IBM mainframe authentication/authorization manager (68B). These managers are linked to their respective native security modules (48A and 48B). The system is designed for system security on multiple platforms (58B) and is part of a platform-independent, cross-platform-fault-tolerant application security system (56).



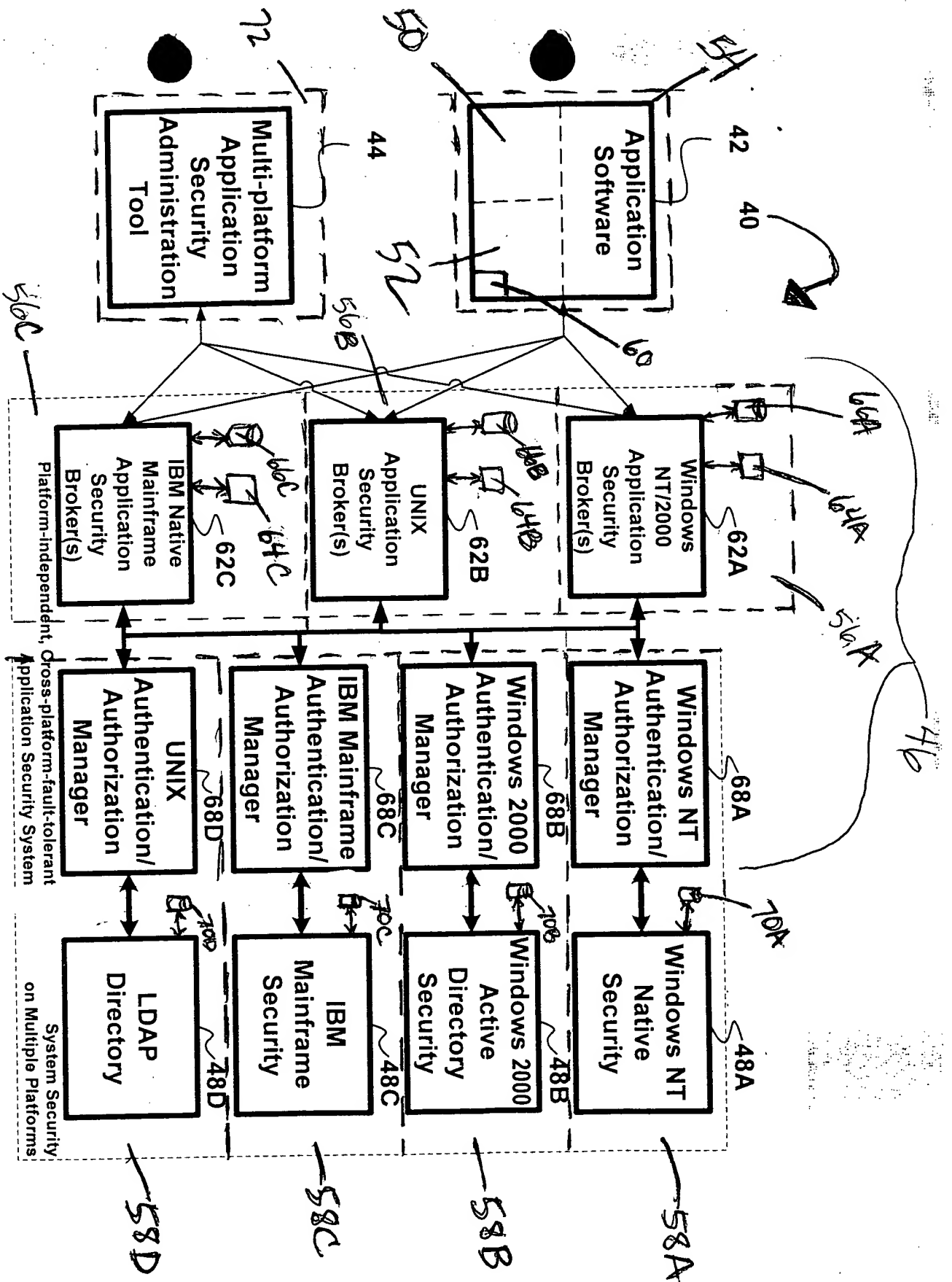


Fig 5